

US-PAT-NO: 5602579

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TITLE: System for converting grayscale resolution in a printing apparatus

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Brief Summary Text - BSTX (2):

In the current market for short-run printing equipment, particularly at the lower end of the market where printers are connected to personal computers, there are available any number of technologies for rendering digital image data as images on paper. Dot-matrix, ink-jet, and thermal printers typically create physical images directly on the sheet on which the image is printed, such as by emitting ink or melting plastic onto the sheet. Of electrophotographic printers there are two well-known types of apparatus for rendering the desired image, the laser raster output scanner (ROS) and the light emitting diode (LED) bar. With either an LED bar or a ROS, light is used to selectively discharge areas on a pre-charged photoreceptor, the areas discharged by the light corresponding to the areas intended to be printed white in the final image. The process of selective discharging causes the print-white portions of charge-retentive surface not to attract toner particles in a subsequent development step.